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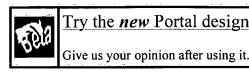
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The good, the bad, and the muffled: the impact of different degradations on Internet speech

80%

Anna Watson, M. Angela Sasse

Proceedings of the eighth ACM international conference on Multimedia October 2000

This paper presents an experiment comparing the relative impact of different types of degradation on subjective quality ratings of interactive speech transmitted over packet-switched networks. The experiment was inspired by observations made during a large-scale, long-term field trial of multicast conferencing. We observed that user reports of unsatisfactory speech quality were rarely due to network effects such as packet loss and jitter. A subsequent analysis of conference recordings found t ...

Countdown to success: dynamic objects, GBB, and RADARSAT-1 Daniel D. Corkill

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Face recognition: A literature survey W. Zhao , R. Chellappa , P. J. Phillips , A. Rosenfeld ACM Computing Surveys (CSUR) December 2003 77%

Volume 35 Issue 4

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine

recognition systems have reached a certain level of maturity, their success is ...

PSoup: a system for streaming queries over streaming data Sirish Chandrasekaran , Michael J. Franklin

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The VLDB Journal — The Internati nal Journal on Very Large Data Bases August 2003

Volume 12 Issue 2

Abstract. Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad hoc and continuous queries by treating data and ...

Poster papers: Discovery net: towards a grid of knowledge discovery V. Ćurčin , M. Ghanem , Y. Guo , M. Köhler , A. Rowe , J. Syed , P. Wendel Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002

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This paper provides a blueprint for constructing collaborative and distributed knowledge discovery systems within Grid-based computing environments. The need for such systems is driven by the quest for sharing knowledge, information and computing resources within the boundaries of single large distributed organisations or within complex Virtual Organisations (VO) created to tackle specific projects. The proposed architecture is built on top of a resource federation management layer and is compos ...

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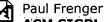
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Orna Raz , Philip Koopman , Mary Shaw

Proceedings of the 24th international conference on Software engineering May 2002

Much of the software we use for everyday purposes incorporates elements developed and maintained by someone other than the developer. These elements include not only code and databases but also dynamic data feeds from online data sources. Although everyday software is not mission critical, it must be dependable enough for practical use. This is limited by the dependability of the incorporated elements. It is particularly difficult to evaluate the dependability of dynamic data feeds, because they ...

From information to conversation Mike Robinson , Yu You , Samuli Pekkola

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ACM SIGGROUP Bulletin December 2000

Volume 21 Issue 3

We support the calls from many commentators to include human interaction in the web, rather than as an extra outside the web. We suggest a generic model of awareness, and some specific interpretations: action-event couplings to call a receiver; general awareness of known others; and local awareness of all others. We then consider extensions to the web into mobile and domestic appliances, and suggest that an underlying awareness service will be needed the ...

10 A search engine for 3D models

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Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin . David Jacobs

ACM Transactions on Graphics (TOG) January 2003

Volume 22 Issue 1

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape-based search methods. The key challenges are to develop query methods simple enough for novice users and matching algorithms robust enough to work for arbitrary polygonal models. We present a Web-based search engine system that support ...

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Ravi Jain , John Wullert

Proceedings of the 8th annual international conference on Mobile computing and networking September 2002

We argue that pervasive computing offers not only tremendous opportunities and exciting research challenges but also possible negative environmental impacts, particularly in terms of physical waste and energy consumption. These environmental impacts will come under increasing government and consumer scrutiny, and like other disciplines (e.g. architecture, transportation), pervasive computing will have to adapt accordingly. Further, we argue that software-related issues will play an increasing ro ...

12 Other impairments and rehabilitation technologies: Development of a new robotic interface for telerehabilitation

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Corinna E. Lathan , Sharon Malley

Proceedings of the 2001 EC/NSF workshop on Universal accessibility of ubiquitous computing: providing for the elderly May 2001

A system was developed to use gestural interface technology and interactive robotics to facilitate motor development, functional mobility, and speech and language development of children with a wide range of disabilities. The prototype Gestural Interface and Robotic Technology system is an interactive robotic rehabilitation tool, disguised as a toy, which can be controlled via almost any part of the body, through voice-activation, or through a Web-enabled computer interface. Children with disabi ...

13 Papers: Tactile user interface: Phidgets: easy development of physical

interfaces through physical widgets Saul Greenberg, Chester Fitchett

Proceedings of the 14th annual ACM symposium on User interface software and technology November 2001

Physical widgets or phidgets are to physical user interfaces what widgets are to

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graphical user interfaces. Similar to widgets, phidgets abstract and package input and output devices: they hide implementation and construction details, they expose functionality through a well-defined API, and they have an (optional) on-screen interactive interface for displaying and controlling device state. Unlike widgets, phidgets also require: a connection manager to track how devices appear on-line; a ...

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🚮 Irfan Pyarali , Marina Spivak , Ron Cytron , Douglas C. Schmidt **ACM SIGPLAN Notices** August 2001

Volume 36 Issue 8

Strict control over the scheduling and execution of processor resources is essential for many fixed-priority real-time applications. To facilitate this common requirement, the Real-Time CORBA (RT-CORBA) specification defines standard middleware features that support end-to-end predictability for operations in such applications. One of the most important features in RT-CORBA is thread pools, which allow application developers and end-users to configure and control processor resources. This paper p ...

16 Testing Intrusion detection systems: a critique of the 1998 and 1999

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DARPA intrusion detection system evaluations as performed by Lincoln Laboratory

ACM Transactions on Information and System Security (TISSEC) November 2000 Volume 3 Issue 4

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number of issues associated with its design and execution that remain unsettled. Some methodologies used in the evaluation are questionable and may have biased its results. One problem is that the evaluators have published relatively little concer ...

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Gruia-Catalin Roman , Gian Pietro Picco , Amy L. Murphy

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Mark Billinghurst , Thad Starner ACM SIGCHI Bulletin January 2000

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19 Large-scale space object tracking using APL2

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Jack G. Rudd, Richard A. Marsh, Marcus L. Munger

ACM SIGAPL APL Quote Quad, Proceedings of the APL98 conference on Array processing language July 1998

Volume 29 Issue 3

The number of space objects in earth orbit has increased steadily from the launch of the first space object (Sputnik) to the current level of approximately 10,000. The North American Defense Cheyenne Mountain Operations Center (CMOC), operated by the United States and Canada, provides continuous tracking of this growing constellation of space objects, including active and inactive satellites and space debris. This mission is accomplished for the most part using radar stations and ground-based

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Richard M. Fujimoto

Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 December 1999

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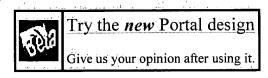




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